

## PUBLICATIONS AND PATENTS

### ALEXANDER L. HARRIS

#### PUBLICATIONS

"Ridged LiNbO<sub>3</sub> modulators fabricated by a novel oxygen-ion implant /wet-etch technique"  
D. M. Gill, D. Jacobson, C. A. White, D. W. Jones, Y. Shi, W. J. Minford and A. L. Harris, *J. Lightwave Technol.* **22**, 887-894 (2004).

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W. L. Wilson, K. Curtis, M. Tackitt, A. Hill, A. Hale, M. Schilling, C. Boyd, S. Campbell, L. Dhar and A. Harris, *Optical and Quantum Electronics* **32**, 393-404 (2000).

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"Acrylate oligomer based photopolymers for storage applications"  
M. L. Schilling, V. L. Colvin, L. Dhar, A. Harris, and H. E. Katz, *Chemistry of Materials* **11**, 247-54 (1999).

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C. R. Kagan, T. D. Harris, A. L. Harris, and M. L. Schilling, *J. Chem. Phys.* **108**, 6892-6 (1998)

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L. Dhar, K. Curtis, M. Tackitt, M. L. Schilling, W. Wilson, A. Hill, C. Boyd, N. J. Levinos, and A. L. Harris, *Optics Letters* **23**, 1710-12 (1998).

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"Surface vibrational dynamics probed by sum frequency generation" (book chapter)  
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"The Effect of Cure Temperature on the Reaction Kinetics and Elastic Modulus of a UV Cured Acrylate System"  
R. Levin, A. Hale, A. L. Harris, *Abstracts of Papers of the American Chemical Society* **209**, 291 (1995).

"Measuring the structure of etched silicon surfaces with Raman spectroscopy"  
M. A. Hines, Y. J. Chabal, T. D. Harris and A. L. Harris, *J. Chem. Phys.* **101**, 8055-8072 (1994).

"Transient vibrational mode renormalization in dipole-coupled adsorbates at surfaces"  
K. Kuhnke, A. L. Harris, Y. J. Chabal, P. Jakob and M. Morin, *J. Chem. Phys.* **100**, 6896-6906 (1994).

"Structural characterization of self-assembled multilayers by FTIR"  
S. F. Bent, M. L. Schilling, W. L. Wilson, H. E. Katz and A. L. Harris, *Chem. Mater.* **6**, 122-126 (1994).

"Raman studies of steric hindrance and surface relaxation of stepped H-terminated silicon surfaces"  
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M. Berg, A. L. Harris, J. K. Brown and C. B. Harris, Optics Letters **9**, 50-53 (1984).

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**PATENTS**

"Method for fabricating a multilayer optical article and a system having a multilayer optical article"

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U.S. Patent #6154415, issued 12/2000.

"Method for fabricating a multilayer optical article"

S. P. Campbell, A. L. Harris, and N. J. Levinos

U.S. Patent #5932045, issued 08/1999.

"Photo recording medium"

V. L. Colvin, A. L. Harris, H. E. Katz, and M. L. Schilling

U.S. Patent #5874187, issued 02/1999.

"High speed method for coating and curing optical fiber"

Y. S. Ali, D. L. Brownlow, A. L. Harris, N. J. Levinos, R. C. Moore, and L. Shepherd

U. S. Patent #5756165, issued 05/1998.

2 patent applications in process